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| PPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO |
|--|-----------------------------|------------------------|------------------------|-----------------|
| 10/700,548 | 11/05/2003 | Laurence Gerald Hughes | Q78134 | 6075 |
| 23373 | 7590 04/06/2006 | | EXAMINER | |
| SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. | | | AZPURU, CARLOS A | |
| SUITE 800 | , revision in the blood, in | • • • | ART UNIT | PAPER NUMBER |
| WASHINGTON, DC 20037 | | | 1615 | |
| | | | DATE MAILED: 04/06/200 | 6 |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | Application No. | Applicant(s) | | | |
|--|---|---|---|--|--|--|
| Office Action Summary | | 10/700,548 | HUGHES ET AL | | | |
| | | Examiner | Art Unit | | | |
| | | Carlos A. Azpuru | 1615 | | | |
| | The MAILING DATE of this communication ap | | <u> </u> | | | |
| Period fo | • • | | | | | |
| WHIC - Exte after - If NC - Failu Any | ORTENED STATUTORY PERIOD FOR REPI CHEVER IS LONGER, FROM THE MAILING I nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. I period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by staturely received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b). | DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be timed will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE | N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133). | | | |
| Status | | | | | | |
| 1)⊠ | Responsive to communication(s) filed on 05. | January 2006. | | | | |
| 2a) <u></u> ☐ | This action is FINAL . 2b)⊠ Thi | is action is non-final. | | | | |
| 3)[| Since this application is in condition for allows | ance except for formal matters, pr | osecution as to the merits is | | | |
| | closed in accordance with the practice under | Ex parte Quayle, 1935 C.D. 11, 4 | 53 O.G. 213. | | | |
| Dispositi | on of Claims | | | | | |
| 4)🖂 | Claim(s) 39-92 is/are pending in the application. | | | | | |
| | 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | |
| 5)⊠ | Claim(s) 39-90 is/are allowed. | | | | | |
| | Claim(s) <u>91 and 92</u> is/are rejected. | | | | | |
| | · · · · · · · · · · · · · · · · · · · | | | | | |
| 8)[| Claim(s) are subject to restriction and/ | or election requirement. | | | | |
| Applicati | on Papers | | | | | |
| 9)[| The specification is objected to by the Examin | er. | | | | |
| 10) | The drawing(s) filed on is/are: a)□ ac | cepted or b) objected to by the | Examiner. | | | |
| | Applicant may not request that any objection to the | - | | | | |
| | Replacement drawing sheet(s) including the correct | | • | | | |
| 11)[| The oath or declaration is objected to by the E | examiner. Note the attached Office | Action or form PTO-152. | | | |
| Priority u | ınder 35 U.S.C. § 119 | | | | | |
| | Acknowledgment is made of a claim for foreig ☐ All b)☐ Some * c)☐ None of: | n priority under 35 U.S.C. § 119(a |)-(d) or (f). | | | |
| | 1. Certified copies of the priority documents have been received. | | | | | |
| | 2. Certified copies of the priority documen | | | | | |
| | 3. Copies of the certified copies of the price | | ed in this National Stage | | | |
| • 6 | application from the International Burea | | | | | |
| - 5 | ee the attached detailed Office action for a list | t of the certified copies not receive | ed. | | | |
| | | | | | | |
| Attachment | ` ' | □ | (| | | |
| | e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) | 4) 🔲 Interview Summary Paper No(s)/Mail Da | (PTO-413) ate | | | |
| 3) 🔲 Inforn | nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 No(s)/Mail Date | | atent Application (PTO-152) | | | |

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DETAILED ACTION

Receipt is acknowledged of applicant's remarks regarding the claims indicated for allowance. After a review of the claims and prosecution history it is agreed that all the claims are should now be considered. Examination of the specification revealed a new rejection. The allowability of claims 91 and 92 is withdrawn in view of the rejection cited below. Also upon review of the application a few formal matters are outstanding. A description of these matters follows:

Specification

Content of Specification

- (a) <u>Title of the Invention</u>: See 37 CFR 1.72(a) and MPEP § 606. The title of the invention should be placed at the top of the first page of the specification unless the title is provided in an application data sheet. The title of the invention should be brief but technically accurate and descriptive, preferably from two to seven words may not contain more than 500 characters.
- (b) <u>Cross-References to Related Applications</u>: See 37 CFR 1.78 and MPEP § 201.11.
- (c) <u>Statement Regarding Federally Sponsored Research and Development</u>: See MPEP § 310.
- (d) The Names Of The Parties To A Joint Research Agreement: See 37 CFR 1.71(g).
- (e) Incorporation-By-Reference Of Material Submitted On a Compact Disc: The specification is required to include an incorporation-by-reference of electronic documents that are to become part of the permanent United States Patent and Trademark Office records in the file of a patent application. See 37 CFR 1.52(e) and MPEP § 608.05. Computer program listings (37 CFR 1.96(c)), "Sequence Listings" (37 CFR 1.821(c)), and tables having more than 50 pages of text were permitted as electronic documents on compact discs beginning on September 8, 2000.

Or alternatively, <u>Reference to a "Microfiche Appendix"</u>: See MPEP § 608.05(a). "Microfiche Appendices" were accepted by the Office until March 1, 2001.

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(f) <u>Background of the Invention</u>: See MPEP § 608.01(c). The specification should set forth the Background of the Invention in two parts:

(1) <u>Field of the Invention</u>: A statement of the field of art to which the invention pertains. This statement may include a paraphrasing of the applicable U.S. patent classification definitions of the subject matter of the claimed invention. This item may also be titled "Technical Field."

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- (2) Description of the Related Art including information disclosed under 37

 CFR 1.97 and 37 CFR 1.98: A description of the related art known to the applicant and including, if applicable, references to specific related art and problems involved in the prior art which are solved by the applicant's invention. This item may also be titled "Background Art."
- general statement of the invention: See MPEP § 608.01(d). A brief summary or general statement of the invention as set forth in 37 CFR 1.73. The summary is separate and distinct from the abstract and is directed toward the invention rather than the disclosure as a whole. The summary may point out the advantages of the invention or how it solves problems previously existent in the prior art (and preferably indicated in the Background of the Invention). In chemical cases it should point out in general terms the utility of the invention. If possible, the nature and gist of the invention or the inventive concept should be set forth. Objects of the invention should be treated briefly and only to the extent that they contribute to an understanding of the invention.
- (h) <u>Brief Description of the Several Views of the Drawing(s)</u>: See MPEP § 608.01(f). A reference to and brief description of the drawing(s) as set forth in 37 CFR 1.74.
- (i) Detailed Description of the Invention: See MPEP § 608.01(g). A description of the preferred embodiment(s) of the invention as required in 37 CFR 1.71. The description should be as short and specific as is necessary to describe the invention adequately and accurately. Where elements or groups of elements, compounds, and processes, which are conventional and generally widely known in the field of the invention described and their exact nature or type is not necessary for an understanding and use of the invention by a person skilled in the art, they should not be described in detail. However, where particularly complicated subject matter is involved or where the elements, compounds, or processes may not be commonly or widely known in the field, the specification should refer to another patent or readily available publication which adequately describes the subject matter.
- (j) <u>Claim or Claims</u>: See 37 CFR 1.75 and MPEP § 608.01(m). The claim or claims must commence on separate sheet or electronic page (37 CFR 1.52(b)(3)). Where a claim sets forth a plurality of elements or steps, each element or step of the

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claim should be separated by a line indentation. There may be plural indentations to further segregate subcombinations or related steps. See 37 CFR 1.75 and MPEP § 608.01(i)-(p).

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- (k) Abstract of the Disclosure: See MPEP § 608.01(f). A brief narrative of the disclosure as a whole in a single paragraph of 150 words or less commencing on a separate sheet following the claims. In an international application which has entered the national stage (37 CFR 1.491(b)), the applicant need not submit an abstract commencing on a separate sheet if an abstract was published with the international application under PCT Article 21. The abstract that appears on the cover page of the pamphlet published by the International Bureau (IB) of the World Intellectual Property Organization (WIPO) is the abstract that will be used by the USPTO. See MPEP § 1893.03(e).
- (l) <u>Sequence Listing</u>, See 37 CFR 1.821-1.825 and MPEP §§ 2421-2431. The requirement for a sequence listing applies to all sequences disclosed in a given application, whether the sequences are claimed or not. See MPEP § 2421.02.

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In particular, the specification lacks a "Brief Description of the Drawings". Correction is required.

This application does not contain an abstract of the disclosure as required by 37 CFR 1.72(b). An abstract on a separate sheet is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 91-92 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for a coating time of 30 mins, does not reasonably provide enablement for at least 30 seconds. The specification does not enable any person skilled in the art to which it

pertains, or with which it is most nearly connected, to make and/or use the invention commensurate in scope with these claims.

A review of the specification finds that all the recitations of this step involve a 30 minute time period (see all Examples). There is no support in the specification for a time of at least 30 seconds Correction is required.

Allowable Subject Matter

Claims 39-90 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carlos A. Azpuru whose telephone number is (571) 272-0588. The examiner can normally be reached on Tu-Fri, 6:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman K. Page can be reached on (571) 272-0602. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Primary Examiner Art Unit 1615

ca

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GROUP 1500